



CHEMISTRY

BOOKS - V PUBLICATION

CHEMISTRY IN EVERYDAY LIFE

Question Bank

1. Sleeping pills are recommended by doctors' to the patients suffering from sleeplessness

but it is not advisable to take its doses without consultation with the doctor. Why?



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2. With reference to which classification has the statement "ranitidine is an antacid" been given?



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3. Why do we require artificial sweetening agents?



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4. Write the chemical equation for preparing sodium soap from glyceryl oleate and glyceryl palmitate. Structural formulas of these compounds are given below: 1. $(C_{15}H_{31}COO)_3C_3H_5$ - Glyceryl palmitate 2. $(C_{17}H_{33}COO)_3C_3H_5$ - Glyceryl oleate





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5. Why do we need to classify drugs in different ways?



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6. Explain the term, target molecules or drug targets as used in medicinal chemistry.



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7. Name the macromolecules that are chosen as drug targets.



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8. Why should not medicines be taken without consulting doctors? "



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9. Define the terms 'chemotherapy'.



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10. Which forces are involved in holding the drugs to the active site of enzymes?



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11. While antacids and antiallergic drugs interfere with the function of histamines, why do these not interfere with the function of each other?



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12. Low level of noradrenaline is the cause of depression. What type of drugs are needed to cure this problem? Name two drugs.



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13. What is meant by the term broad spectrum antibiotics? Explain.



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14. How do antiseptics differ from disinfectants? Give one example of each



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15. Why are cimetidine and ranitidine better antacids than sodium hydrogen carbonate or magnesium or aluminium hydroxide?



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16. Name a substance which can be used as an antiseptic as well as disinfectant.



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17. What are the main constituents of dettol?



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18. What is tincture of iodine? What is its use?



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19. What are food preservatives?



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20. Why is the use of aspartame limited to cold foods and drinks?



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21. What are artificial sweetening agents? Give two examples.



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22. Name the sweetening agent used in the preparation of sweets for a diabetic patient.



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23. What problem arises in using alitame as artificial sweetener?



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24. How are synthetic detergents better than soaps?



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25. Explain the following terms with suitable examples (i) cationic detergents (ii) anionic detergents and (iii) non-ionic detergents.



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26. what are biodegradable and non - biodegradable detergents? Give one example of each.



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27. Why do soaps not work in hard water



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28. Can you use soaps and synthetic detergents to check the hardness of water?



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29. Explain the cleansing action of soaps.



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30. If water contains dissolved calcium hydrogen carbonate, out of soaps and synthetic detergents which one will you use for cleaning clothes "



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31. Label the hydrophilic and hydrophobic parts in the following compounds. (i)

$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{O}^-\text{Na}^+$ (ii) $\text{CH}_3(\text{CH}_2)_{15}$

$N^+(CH_3)_3$ Br^- (iii) $CH_3(CH_2)_{16}$

$COO(CH_2CH_2O)_6CH_2CH_2OH$



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32. Classify the following drugs into antipyretics, tranquilizers, and antiseptics.

Tincture iodine, H_2O_2 , Barbituric acid,

Paracetamol, 0.2% phenol.



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33. The excess presence of HCl in our body causes certain ailment associated with digestion. explain



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34. In the class room discussion it is suggested that '2 %' solution of phenol is an antiseptic while '1 %' phenol is a disinfectant. 1. Can you suggest the differences between antiseptic and disinfectant.





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35. Select the odd one out. Justify your selection. 'ibuprofen, diclofenac sodium, luminal'.



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36. The label on the packing of a dried fruit reads "contain BHT antioxidant" A. What you mean by antioxidant? b. What is BHT? c. Give

another example for a substance to be used as an antioxidant.



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37. Assume that your younger brother studying in a high school class while examining the label of a mango pickle bottle happens to see the statement 'contains sodium benzoate and allowed colours'. He approaches you to explain the role of sodium benzoate in that pickle. How will you help him?



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38. Chemical compounds used for the treatment of stress are called _____. Give one example for the above drug.



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39. The discovery of antibiotics makes the treatment of diseases very easy. i. What do you understand by 'antibiotics'? ii. Which was the

first antibiotic and who discovered it? iii. How are the antibiotics classified? -



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40. Match the following :

'(##VPU_HSS_CHE_XII_C16_E03_009_Q01##)'



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41. Some familiar substances are given below:

Saccharin, Equanil, Dettol, Vitamin- B_{12} In the

following situations, which among them will be selected? i. As a sweetening agent. ii. To celan wounds.



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42. Give two examples of organic compounds used as antiseptic



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43. Mention one use each of the following drugs i. Ranitidine. ii. Paracetamol iii. Tincture of iodine



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44. Name the chemical responsible for the antiseptic properties of dettol?



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45. What is an antipyretic? Give an example?



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46. What is aspartame and what is its use?



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47. Pick out the odd one among the following on the basis of their medicinal properties mentioning the reason. (i) Luminal, seconal,

phenacetin, equanil (ii) Chloroxylenol, phenol, chloramphenicol, bithional



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48. Name a substance which can be used as an antiseptic as well as disinfectant.



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49. What are the consequences of using non-biodegradable detergents?



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50. Give an example for an artificial sweetener used by diabetic patients?



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51. What is the role of bithional in toilet soaps?



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52. What is the nature of an antacid?



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53. How does aspirin act as an analgesic?



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54. What is salvarsan? To which class of drugs does it belong and for which disease is it used?





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55. In order to wash clothes with water containing dissolved calcium hydrogen carbonates, which cleaning agent will you prefer and why? Soaps or synthetic detergents give one advantage of soaps over synthetic detergents?



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56. What are antihistamines? Give two examples? Explain how do they act on the human body?



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57. Tincture iodine is: (1) Aqueous solution of I_2 (2) Solution of I_2 in aqueous KI (3) Alcoholic solution of I_2

A. aqueous solution of I_2

B. Solution of ' I_2 ' in aqueous 'KI'

C.

D. alcoholic solution of 'I_2'

Answer: C



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58. Which among the following is not antibiotic?

A. penicillin

B. Oxytocin

C. Erythromycin

D. Tetracycline

Answer: B



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59. An ester used as medicine is

A. ethyl acetate

B. Methyl acetate

C. Methyl salicylate

D. ethyl benzoate

Answer: C



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60. Which of the following drugs reduces fever?

A. analgesic

B. antipyretic

C. antibiotic

D. tranquilizer

Answer: B



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61. Which of the following can possibly be used as analgesic without causing addiction

A. Morphine

B. Aspirine

C. Heroin

D. Codeine

Answer: B



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62. The compound FIGURE is used as

A. antiseptic

B. antibiotic

C. analgesic

D. pesticide

Answer: C



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63. Among the following sweeteners which one has the lowest sweetness value?

A. aspartame

B. saccharin

C. sucralose

D. alitame

Answer: A



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64. Amoxylin is semi- synthetic modification of

- A. penicillin
- B. Streptomycin
- C. Tetracyclin
- D. chloramphenicol

Answer: A



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65. Barbituric acid is used as

A. transquiliizers

B. an antiseptic

C. an antibiotic

D. an analgesic

Answer:



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66. A broad spectrum antibiotic is

A. paracetamol

B. penicilin

C. aspirin

D. chloramphenicol

Answer: D



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67. Which of the following is not a broad spectrum antibiotic

- A. Tetracycline
- B. Chloromycetin
- C. Penicillin
- D. none of these

Answer: C



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68. Paracetamol is;



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69. Which is used for the treatment of tuberculosis?

A. penicillin

B. Aspirin

C. chloramphenicol

D. streptomycin

Answer: D



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70. Which of the following antibiotic contains NO₂ group attached to aromatic nucleus in its structure? (1)penicillin (2)Streptomycin
(3)Chloramphenicol (4)all of these

A. penicillin

B. Steptomycin

C. Chloramphenicol

D. all of these

Answer: C



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71. Barbituric acid is used as

A. anaesthetic

B. sedative

C. antiseptic

D. none of these

Answer: B



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72. The drug used for treatment of typhoid is :
novalgin, quinine, chloromycetin, none of
these

A. novalgin

B. quinine

C. chloromycetin

D. none of these

Answer: C



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73. Which of the following is an analgesic?

A. Chloramphenicol

B. penicilin

C. paracetamol

D. streptomycin

Answer: C



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74. Which is a hypnotic drug? (1) Luminal
(2) Salol (3) Catechol (4) Phenol

A. Luminal

B. salol

C. catechol

D. phenol

Answer: A



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